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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/672,879	09/29/2000	Minoru Handa	0757-0225P-SP	9477
7:	590 06/11/2002			
Birch Stewart Kolasch & Birch LLP			EXAMINER	
P O Box 747 Falls Church, V	'A 22040-0747		LOBO, IAN J	
			ART UNIT	PAPER NUMBER
			3662	
		DATE MAILED: 06/11/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u>.</u>	Application No.	Applicant(s)			
•	09/672,879	HANDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ian J. Lobo	3662			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM					
THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b). Status	IN. R 1.136(a). In no event, however, may a reply within the statutory minimum of the riod will apply and will expire SIX (6) MC	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NRANDONED (35 U.S.C. § 133).			
1)⊠ Responsive to communication(s) filed on	<u> 28 March 2002</u> .				
2a) This action is FINAL . 2b)⊠	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-11,19 and 20 is/are pending in the application.					
4a) Of the above claim(s) is/are with	drawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-11,19 and 20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection	to the drawing(s) be held in ab	disapproved by the Examiner			
11) The proposed drawing correction filed on _		guisapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☑ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449) Paper N	(8) 5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152) .			

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Art Unit: 3662

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1-11, 19 and 20 in Paper No. 8 is acknowledged.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 1-11, 19 and 20 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is unclear, from the instant claims, what applicant is claiming and the specific passages and figures where the claimed invention is detailed. Applicant is requested to point out where, in the specification, the claimed steps are detailed.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 19 and 20, as best understood and broadly interpreted, are rejected under 35 U.S.C. 102(b) as being anticipated by the patent to Gilmour ('344).

Note that Gilmour discloses forming a receiving beam by sampling data obtained from sampling echo signals in multiple scanning cycles.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-11, as best understood and broadly interpreted, are rejected under 35 U.S.C. 103(a) as being unpatentable over the PCT patent ('919) or US patent to Wright et al ('373) when taken in view of Gilmour ('344).

The Wright et al patents disclose beam-forming methods and apparatuses that include multiplexers, analog-to-digital converters and a signal processor. The difference between independent claims 1, 5, 9 and 10 and the Wright et al systems is the claimed selection of sampling data from different scanning cycles.

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Gilmour teaches the selecting of sampling data from multiple scanning cycles is a well-known technique in beam-forming, especially in side looking sonar applications. In view of Gilmour, it would have been obvious to one of ordinary skill in the art to modify the Wright et al systems to sample data from multiple scanning cycles. Claims 1, 5, 9 and 10 are so rejected.

Dependent claims 2-4 and 6-11 are further provided by the above noted prior art.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to lan J. Lobo whose telephone number is (703) 306-4161. The examiner can normally be reached on Mon Fri, 6:30 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (703) 306-4171. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

lan J. Lobo Primary Examiner Art Unit 3662

ijl June 5, 2002